

## EAST Search History

| Ref # | Hits | Search Query  | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|------|---|--|------------------|---------|------------------|
| S107  | 421  | S106 and diameter   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/10/19 18:34 |
| S106  | 937  | S105 and @ad<"20020328"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/10/19 18:34 |
| S103  | 132  | S102 and @ad<"20020328"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/10/19 18:32 |
| S105  | 1460 | (photodiode or photodetect\$4) with (\$4particle or (quantum adj dot))                | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/10/19 18:31 |
| S104  | 77   | S103 not mirkin.in.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/10/19 18:30 |
| S102  | 620  | (nanoparticle) and (nanometer or nm or diameter) and (optoelectronic) and (electrode) | US-PGPUB;<br>USPAT;<br>USOCR   | OR               | ON      | 2007/10/19 18:00 |
| S101  | 196  | S100 and @ad<"20020328"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/10/19 18:00 |
| S100  | 938  | (nanoparticle) and (nanometer or nm or diameter) and (optoelectronic)                 | US-PGPUB;<br>USPAT;<br>USOCR   | OR               | ON      | 2007/10/19 18:00 |

## EAST Search History

|     |     |   |  |    |    |                  |
|-----|-----|---|--|----|----|------------------|
| S99 | 176 | S98 and @ad<"20020328"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/19 18:00 |
| S98 | 893 | ((CdS or CdSe) with nanoparticle)<br>and (nanometer or nm or diameter)  | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/10/19 18:00 |
| S41 | 525 | S40 and @ad<"20020328"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/19 17:53 |
| S97 | 907 | (CdS or CdSe) with nanoparticle   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/10/19 17:52 |
| S96 | 19  | ("5272355"   "5285078"   "5324965"<br>  "5331180"   "5427648").PN. OR<br>("5567954").URPN.                          | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/10/19 17:52 |
| S95 | 152 | S94 and @ad<"20020328"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/19 16:25 |
| S36 | 14  | S35 and @ad<"20020328"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/19 16:25 |
| S94 | 517 | (nanowire or (quantum adj wire))<br>and ("p-type" and "n-type") and<br>((light adj (emis\$4 or emit\$4)) or<br>LED) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/19 16:24 |
| S81 | 677 | S80 and @ad<"20020328"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/19 16:23 |

## EAST Search History

|     |     |  |  |    |     |                  |
|-----|-----|--|--|----|-----|------------------|
| S93 | 48  | ("20020130311" "3493431" "3580732" "3632405" "4099986" "5260957" "5332910" "5363394" "5363394" "5607876" "5702822" "5858862" "5858862" "5881200" "6093941" "6103540" "6225198" "6231744" "6248674" "6306736" "6539156" "6597496").PN.      | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/10/19 16:08 |
| S92 | 0   | ("20020130311" "3493431" "3580732" "3632405" "4099986" "5260957" "5332910" "5363394" "5363394" "5607876" "5702822" "5858862" "5858862" "5881200" "6093941" "6103540" "6225198" "6231744" "6248674" "6306736" "6539156" "6597496").PN.).PN. | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/10/19 16:08 |
| S91 | 2   | ("20020130311").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/10/19 16:08 |
| S90 | 4   | ("5363394" "5881200" "6539156" "6597496").PN.  | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON  | 2007/10/19 16:04 |
| S89 | 13  | ("4812886"   "4926232"   "4959696"   "4973858"   "4974037"   "4999697"   "5017973"   "5021863"   "5023674"   "5093699"   "5130766"   "5234848"   "5283445").PN. OR ("H001570").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON  | 2007/10/19 16:02 |
| S88 | 9   | ("5401980"   "5422496").PN. OR ("5604154").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON  | 2007/10/19 13:21 |
| S87 | 16  | ("4983540"   "5104824"   "5372675"   "5376225"   "5562802"   "5600163"   "5604154"   "5691552"   "5714766").PN. OR ("6121157").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON  | 2007/10/19 13:19 |
| S86 | 47  | ("5021839"   "5336904"   "5385853"   "5534713").PN. OR ("6191432").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON  | 2007/10/19 13:14 |
| S85 | 295 | S81 not S82  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/10/19 13:07 |

## EAST Search History

|     |      |  |  |    |     |                  |
|-----|------|--|--|----|-----|------------------|
| S84 | 19   | ("5272355"   "5285078"   "5324965"   "5331180"   "5427648").PN. OR ("5567954").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON  | 2007/10/19 13:04 |
| S83 | 529  | S82 and @ad<"20030328"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/10/19 12:42 |
| S82 | 943  | (quantum adj wire) and ((quantum adj dot) or \$4particle)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/10/19 12:39 |
| S80 | 1347 | quantum adj wire   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON  | 2007/10/19 12:38 |
| S79 | 1347 | quantum adj wire   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON  | 2007/10/19 11:16 |
| S78 | 3    | ("5440148").PN. OR ("5679961").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON  | 2007/10/19 11:16 |
| S77 | 4    | ("5889288"   "6323504").PN. OR ("6635898").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON  | 2007/10/19 09:06 |
| S76 | 2    | ("20020190249").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/10/19 08:56 |
| S75 | 15   | ("20020041736"   "20020079485"   "20020080842"   "20020114367"   "20030066998"   "20030107927"   "5881200"   "5889288"   "6240114"   "6281519"   "6294794"   "6320220"   "6329668"   "6498354"   "6512242").PN. OR ("6978070").URPN. | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON  | 2007/10/19 08:56 |
| S74 | 11   | ("5710051"   "5844279"   "5972744"   "6042998"   "6091076"   "6198113"   "6204517"   "6414333"   "6441392"   "6472705"   "6527968").PN. OR ("7041539").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON  | 2007/10/19 08:38 |

## EAST Search History

|     |         |   |  |    |    |                  |
|-----|---------|---|--|----|----|------------------|
| S73 | 505     | S72 and @ad<"20020328"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/19 08:30 |
| S72 | 1647    | S70 and S71   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/19 08:30 |
| S71 | 1888417 | electrode   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/19 08:30 |
| S70 | 4210    | S67 same S68  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/19 08:29 |
| S69 | 6392    | S67 and S68   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/19 08:29 |
| S68 | 4997264 | semiconductor or silicon or si or<br>gaas or (gallium adj arsenide) or SiC<br>or (silicon adj carbide) or SiGe or<br>(Silicon adj germanium) or INP or<br>(indium adj phosphide) or InAsP or<br>(indium adj arsenide) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/19 08:29 |
| S67 | 7763    | quantum adj dot   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/19 08:27 |

## EAST Search History

|     |      |   |  |    |     |                  |
|-----|------|---|--|----|-----|------------------|
| S66 | 2    | ("20030089899").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/10/18 16:35 |
| S65 | 207  | S64 and @ad<"20020328"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/10/18 16:35 |
| S58 | 136  | S57 and @ad<"20020328"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/10/18 16:31 |
| S64 | 403  | majumdar.in.  | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON  | 2007/10/18 16:30 |
| S63 | 22   | ("4675074"   "5034344"   "5236864"<br>  "5266518").PN. OR ("5372675").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON  | 2007/10/18 16:29 |
| S62 | 4    | S60 and S61   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/10/18 16:25 |
| S61 | 7007 | "977".clas.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/10/18 16:25 |
| S60 | 574  | S59 and @ad<"20020328"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/10/18 16:25 |

## EAST Search History

|     |       |                                     |  |    |    |                  |
|-----|-------|-------------------------------------|--|----|----|------------------|
| S59 | 1051  | fine adj semiconductor              | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/18 16:24 |
| S55 | 370   | S54 and @ad<"20020328"              | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/18 16:24 |
| S57 | 641   | (silicon or Si) adj (NEMS or MEMS)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/18 15:45 |
| S56 | 17758 | (silicon or Si) with (NEMS or MEMS) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/18 15:45 |
| S54 | 840   | (silicon or si) adj waveguid\$4     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/18 15:35 |
| S53 | 10180 | (silicon or si) with waveguid\$4    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/18 15:35 |
| S52 | 50    | S51 and @ad<"20020328"              | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/18 15:35 |

## EAST Search History

|     |      |  |  |    |    |                  |
|-----|------|--|--|----|----|------------------|
| S51 | 129  | "stranski-krastanov" or (stranski adj krastanov)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/18 15:28 |
| S50 | 126  | "stranski-krastanov" or (stranski adj krastanov)   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/10/18 15:28 |
| S48 | 4    | ("6172902"   "6476409").PN. OR ("6843902").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/10/18 15:27 |
| S49 | 3    | ("6172902"   "6476409"   "6843902").PN. OR ("7220346").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/10/18 14:37 |
| S47 | 14   | ("4393349"   "4473833"   "4509018"   "5093618"   "5326986"   "5334884"   "5343147"   "5453691"   "5532485"   "5574290"   "5831278"   "6066948").PN. OR ("6690162").URPN. | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/10/18 14:35 |
| S46 | 11   | ("20020117738"   "20020121636"   "20030027724"   "20030098455"   "5153171"   "5917322"   "6459097"   "6495854"   "6504172"   "6690162").PN. OR ("6919579").URPN.         | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/10/18 14:34 |
| S45 | 6    | ("20030027724"   "20030098455"   "5917322"   "6459097"   "6495854"   "6504172").PN. OR ("6987282").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/10/18 14:33 |
| S44 | 6    | ("20030027724"   "20030098455"   "5917322"   "6459097"   "6495854"   "6504172").PN. OR ("6987282").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/10/18 13:36 |
| S43 | 3    | ("6333016").PN. OR ("6923946").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/10/18 13:27 |
| S42 | 6    | ("20030027724"   "20030098455"   "5917322"   "6459097"   "6495854"   "6504172").PN. OR ("6987282").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/10/18 13:21 |
| S40 | 1129 | S38 and S39  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/10/18 13:13 |



## EAST Search History

|     |        |   |  |    |     |                  |
|-----|--------|---|--|----|-----|------------------|
| S39 | 480352 | "257".clas. or "438".clas. or "977".clas. | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/10/18 13:13 |
| S38 | 23917  | ballistic                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/10/18 13:13 |
| S37 | 2      | ("6798000").PN.                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/10/18 13:12 |
| S35 | 289    | nanowire with channel                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/10/18 13:04 |